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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/865,333	05/25/2001		Yasuo Ishihara	543-00-011	2949
128	7590	07/01/2004	EXAMINER		INER
		ERNATIONAL IN	TWEEL JR, JOHN ALEXANDER		
101 COLUMBIA ROAD P O BOX 2245				ART UNIT	PAPER NUMBER
MORRISTO	MORRISTOWN, NJ 07962-2245			2636	
				DATE MAILED: 07/01/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/865,333	ISHIHARA, YASUO					
Office Action Summary	Examiner	Art Unit					
	John A. Tweel, Jr.	2636					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status	-						
1) Responsive to communication(s) filed on 25 h	fav 2001.						
	s action is non-final.						
3) Since this application is in condition for allowa		esecution as to the merits is					
· · · · · · · · · · · · · · · · · · ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-89</u> is/are pending in the application	ı.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-89</u> is/are rejected.							
7) Claim(s) is/are objected to.							
· · · ·	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	e e e e e e e e e e e e e e e e e e e						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)					

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-89 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 6,583,733 in view of **Michaelson et al** [U.S. 6,734,808].

The product for helicopter ground proximity warning system taught by **Ishihara et al** teaches an apparatus that is able to output an alert signal located in predetermined boundaries much like the claims in the application. However, there is no mention of establishing the alert signal using first and second envelopes indicative of terrain.

The apparatus for alerting the crew of a submerged vessel of proximity to terrain taught by **Michaelson** uses nearly the same method for determining an

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alert envelope yet is used for submarines. However, as the motions and actions of submarines are similar to that of helicopters, this is considered but an obvious variation on the patented process. Both the helicopter and submarine are able to move in three dimensions relative to the surrounding landscape. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a system similar to Michaelson for the purpose of using a well-known method for a vessel similar to that of a rotary wing aircraft.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ishihara et al [U.S. 6,304,800] predicts which one of at least two runways an aircraft is most likely to land.

Bateman et al [U.S. 6,445,310] monitors the altitude of an aircraft with respect to a runway.

Conner et al [U.S. 6,577,931] is a terrain avoidance system that reduces nuisance alarms.

Ishihara et al [U.S. 6,622,066] suppresses an alert to reduce nuisance warnings.

Ishihara et al [U.S. 6,707,394] generates terrain clearance floor envelopes about a runway.

Conner et al [U.S. 6,737,987] warns of a possible helicopter tail strike.

Ishihara [U.S. 2002/0080145] provides a terrain display consistent with the performance capabilities of the aircraft.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. Tweel, Jr. whose telephone number is 703 308 7826. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Hofsass can be reached on 703 305 4717. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAT 6/27/04

JOHNTWEEL
PRIMARY EXAMINER